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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,030	12/02/2003	Dae Hong Kim	8733.937.00-US	2585
30827	7590 10/18/2005		EXAMINER	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			CHUNG, DAVID Y	
	ON, DC 20006		ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 10/18/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	\wedge				
	10/725,030	KIM ET AL.	and				
Office Action Summary	Examiner	Art Unit					
	David Y. Chung	2871					
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence addi	ress				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA* - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica* - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of thi y period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	munication.				
Status							
1) Responsive to communication(s) filed or	n .						
	This action is non-final.						
3) Since this application is in condition for							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applied 4a) Of the above claim(s) is/are with 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1,6-11,15,19 and 20</u> is/are reject 7)⊠ Claim(s) <u>2-5,12-14 and 16-18</u> is/are object to restriction	vithdrawn from consideration. ected. ected to.						
Application Papers							
9) The specification is objected to by the Ex	xaminer.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection	* ' '						
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by							
Priority under 35 U.S.C. § 119							
a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in the priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National S	itage				
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-33) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	948) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO	152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1, 6-11, 15, 19 and 20 rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (U.S. 6,882,376).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claims 1, 11, 15, 19 and 20, note figures 6A and 7A. In figures 6A and 7A, Kim discloses a gate line 121 having a bump shaped groove in the region where the gate line intersects data line 161. See column 5, line 63 – column 6, line 45. A thin film transistor is also formed next to the intersection of the gate and data lines as shown in

figure 5. Kim teaches that liquid crystal devices have been widely used for color displays. See column 1, lines 25-30. This would require a color filter to be present in the device. Because the device of Kim is an active matrix device, it naturally follows that current is selectively supplied to the pixel electrode so that an electric filed is generated between the first and second substrates since this is how active matrix devices function. Kim teaches that liquid crystal devices comprise liquid crystal interposed between an upper and lower substrate. See column 1, lines 32-36.

As to claim 6, figure 7A shows that the top edge of the bump shaped groove overlaps the data bus line 161 near the center.

As to claims 7-10, figures 6A and 7A show that the bump shaped groove in the gate line has a somewhat saw tooth shaped structure and is formed to extend generally parallel to the gate line. The width of the groove is clearly narrower than that of the gate line.

Allowable Subject Matter

Claims 2-5, 12-14 and 16-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art did not teach or suggest a separate saw tooth structure or

protrusion formed within the bump shaped groove in a region of the gate line that intersects with the data line.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (571) 272-2288. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

RENNETH PARKER PRIMARY EXAMINER